COMPUTER ABSTRACTS

VOLUME 22, 1978

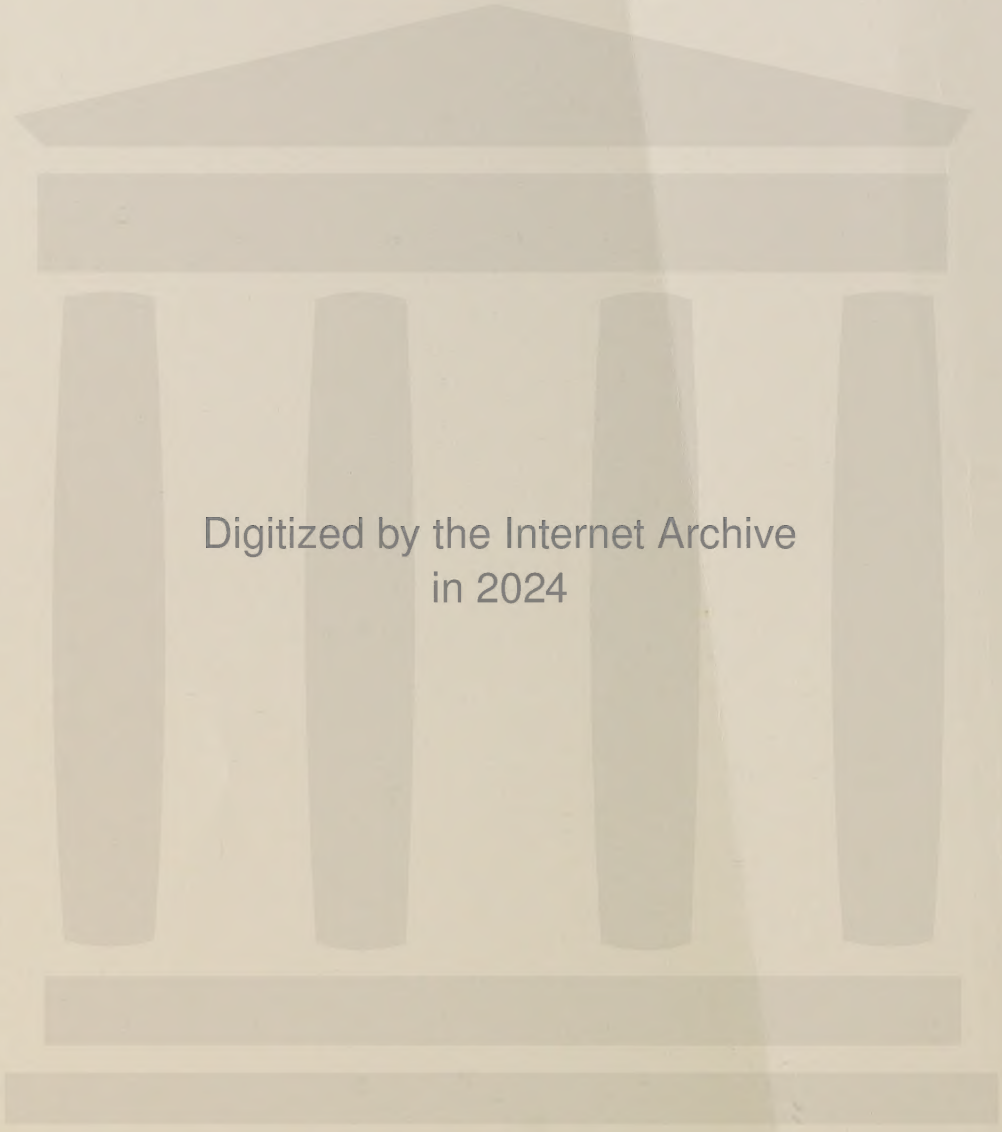
SUBJECT INDEX

AUTHOR INDEX

PATENT INDEX

LIST OF PERIODICALS ABSTRACTED

TECHNICAL INFORMATION COMPANY
P.O. BOX 59 · ST. HELIER
JERSEY · BRITISH CHANNEL ISLANDS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VOLUME 22

1978

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CLASSIFICATION SCHEME

Since the bulk of computer literature is concerned with digital computers, most sections of the classification relate wholly or primarily to various aspects of digital computers. However, for the benefit of readers chiefly interested in analogue computers, *all* material relating to such computers is classified in a single section (Section 15). Similarly, another section (Section 16) is devoted to *all* material relating to hybrid computers (and other computers not wholly analogue or wholly digital).

Applications of computers are classified in a special section (Section 18) subdivided into specific areas of application. Where appropriate, cross-references to this section are included in Sections 15 and 16.

Books (as opposed to articles and papers in periodical literature, reports and patents) are to be found in the final section (Section 19), but are appropriately cross-referenced in other sections.

The headings of the nineteen sections into which abstracts are classified are listed below with, for each section a description of its scope and/or examples of subject matter included in it. In addition references are given to other sections related in some respect to a particular section.

1 GENERAL. Covers matters of general interest and/or not falling within the scope of any other section. Includes:—State-of-the-art reviews; Directories and other reference material; General bibliographies; Terminology; Standardisation; Legal aspects of computers; Computer associations; Computing services; Economics of computer use; Marketing of computers; Computer selection; Planning, organisation, management, etc., of computer installations.

2 COMPUTER THEORY. Includes:—Automata theory; Formal languages (other than specific programming languages, for which see Section 8). Refer also to Section 3.

3 LOGICAL DESIGN. Covers the design of computer logic, unrelated to specific physical circuits or devices (for which see Section 10). Refer also to Sections 2 and 9.

4 ARTIFICIAL INTELLIGENCE. Includes:—Learning machines; Self-organising systems; Neuron analogues; Perceptrons; Simulation of human thinking.

5 PATTERN RECOGNITION. Includes:—Character recognition; Speech recognition; Pictorial features recognition.

6 MATHEMATICS. Covers all material having a high mathematical content. Refer also to Section 7.

7 TECHNIQUES. Includes:—Algorithms; Programs; Arithmetic operations; Arithmetic systems (such as interval arithmetic, residue arithmetic, etc.); Radix conversion; Sorting; Time-sharing. Refer also to Sections 6 and 8.

8 PROGRAMMING. Includes:—Languages; Operating systems; General programming techniques (but for specific production programs, see Section 7).

9 SYSTEM DESIGN. Covers the overall design, organisation and construction of digital computers, major parts thereof (e.g., arithmetic and control units), and multiple computer systems. Includes:—Application of digital computers in the design and production of digital computers. Refer also to Sections 2, 3 and 14.

10 DIGITAL CIRCUITS AND COMPONENTS. Includes:—Circuits and components for performing logic functions; Bistable and multistable circuits; Counters; Accumulators; Shift registers; Code converters; Adders; Subtractors; Multipliers; Dividers. Refer also to Section 11.

11 DATA STORAGE. Includes:—Memory elements; Memory matrices; Associative (content-addressable) memories; Permanent stores; Semi-permanent (read-only) stores; Magnetic recording (tape, drum, disc, card). Refer also to Section 12.

12 INPUT/OUTPUT. Covers peripheral equipment, its connection to and control by digital computers, and input/output techniques. Includes:—Punched tape; Punched cards; Printers; Display systems and devices; Speech output devices; Analogue/digital converters. Refer also to Sections 5, 11 and 13.

13 DATA TRANSMISSION. Includes:—Data acquisition and collection. Refer also to Section 12.

14 SPECIFIC DIGITAL COMPUTERS. Covers material relating to specific digital computer models (hardware and software). Includes:—Surveys of digital computer characteristics. Refer also to Section 9.

15 ANALOGUE COMPUTERS. Covers all material relating to analogue computers, and their components, analogue computing techniques, etc. Includes:—Applications of analogue computers (normally by cross-reference to Section 18).

16 HYBRID AND OTHER COMPUTERS. Covers all material relating to hybrid computers (and all other computers not wholly analogue or wholly digital), their components, hybrid computing techniques, etc. Includes:—Digital differential analysers; Applications of hybrid and other computers (normally by cross-reference to Section 18).

17 EDUCATION AND PERSONNEL. Includes:—Computer science education; Instructional aids; Films; Computer personnel recruitment, selection, training, etc.; Displacement of personnel and unemployment arising from the use of computers. Does *not* include educational applications of computers, for which see Section 18 (Education sub-heading).

18 APPLICATIONS. Differs from other Sections in that abstracts are further classified under sub-headings (in alphabetical order) for various specific areas of application (together with a final Miscellaneous sub-heading). The Contents page opposite includes a complete list of these sub-headings. Refer also to Sections 6, 7 and 8.

19 BOOKS. Includes:—Conference proceedings and the like.

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Abstracts are provided for four main types of items:

(1) Articles and papers in periodicals, conference proceedings, etc.
(2) U.S. Government Reports
(3) Patents
(4) Books

Abstracts of the first three types are arranged in the above order within each classified section of *Computer Abstracts*; book abstracts appear in a final section.

The publishers cannot supply copies of items abstracted, but will provide information if subscribers have difficulty in locating a source for any particular item. In most cases, however, the following notes should enable sources to be identified:—

Articles and papers. Titles of periodicals and other publications are generally abbreviated, but full titles and publishers are listed in the annual index. In the case of papers from proceedings of conferences and the like, full bibliographical details of the proceedings will normally be found in the Books section. A large proportion of the periodicals and other publications should be available in any good general technical library.

U.S. Government Reports. These reports relating to U.S. Government-sponsored research and development are mostly identified by AD, COM or PB serial numbers. Most reports are available from the National Technical Information Service, Springfield, Virginia 22151, U.S.A. Reports should be ordered by the serial number printed in italics in the abstract (*not* by the *Computer Abstracts* reference number). The price of a report depends on its length, on whether it is required in paper copy or microfiche form, and on whether the order originates in North America or elsewhere. In addition, prices are fixed for only a limited period of time. It is not therefore possible to quote a meaningful price in an abstract, and information about the price of any particular report should be requested from the National Technical Information Service.

Patents. British patent specifications are identified by *B.P.* followed by the serial number of the patent. They can be obtained at The Patent Office, 25 Southampton Buildings, London, WC2A 1AY or by post from The Patent Office, Orpington, Kent BR5 3RD; in either case the price of a patent specification is 75p. U.S.A. patent specifications are identified by *U.S.P.* followed by the serial number of the patent; they can be ordered from the Commissioner of Patents, Washington, D.C. 20231, U.S.A., and cost 50 cents each.

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AIAA Journal. American Institute of Aeronautics and Astronautics Inc., 1290 Avenue of the Americas, New York, NY 10019, U.S.A.
AIChE Journal. American Institute of Chemical Engineers, 345 East 47 Street, New York, NY 10017, U.S.A.
ALLC Bulletin. Dr J. L. Dawson, Literary and Linguistic Computing Centre, Sidgwick Site, Cambridge, CB3 9DA.
Analytical Chemistry. American Chemical Society, 1155 16th Street, N. W., Washington D.C. 20036, U.S.A.
Angewandte Informatik. Friedr. Vieweg & Sohn Verlagsgesellschaft mbH, 6200 Wiesbaden, Gustav-Stresemann-Ring 12-16, Germany.
Applied Optics. American Institute of Physics, 335 East 45 Street, New York, NY 10017, U.S.A.
Archiwum Automatyki i Telemechaniki. Foreign Trade Enterprise Ars Polona-Ruch, 00–068 Warszawa, 7 Krakowskie Przedmiescie, P. O. Box 1001, Poland.
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BIT. Data A/S, Kronprinsensgade 14, DK-1114, Copenhagen K, Denmark.
Bulletin de Liaison de la Recherche en Infomatique et Automatique. Institut de Recherche d'Informatique et d'Automatique, Domaine de Voluceau, Rocquencourt, 78150-Le Chesnay, France.

Canadian J. Chem. Engng. (The Canadian Journal of Chemical Engineering). The Canadian Society for Chemical Engineering, 151 Slater Street, Ottawa, Ontario K1P 5H3, Canada.
Chemical Engineering Progress. American Institute of Chemical Engineers, 345 East 47 Street, New York, NY 10017, U.S.A.
Chemie Ingenieur Technik. Verlag Chemie GmbH, D-6940 Weinheim, Postfach 1260/1280, Pappelallee 3, Germany.
Commun. ACM. (Communications of the ACM). Association for Computing Machinery, 1133 Avenue of the Americas, New York, NY 10036, U.S.A.
Computer Bulletin. The British Computer Society, 13 Mansfield Street, London, W1M 0BP.
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Computers & Biomedical Research. Academic Press Inc., 111 Fifth Avenue, New York, NY 10003, U.S.A.
Computers & the Humanities. Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523, U.S.A.
Computing. Springer-Verlag, Molkerbastei 5, P.O. Box 367, A-1011 Wien, Austria (or, in North America, Springer-Verlag New York Inc., 175 Fifth Avenue, New York, NY 10010, U.S.A.)
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Elektronische Rechenanlagen. R. Oldenbourg Verlag GmbH, Rosenheimer Strasse 145, 8000 Munchen 80, Germany.
Ergonomics. Taylor & Francis Ltd., 10–14 Macklin Street, London, WC2B 5NF.

Human Factors. Johns Hopkins University Press, Baltimore, Maryland 21218, U.S.A.
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Information & Management. North-Holland Publishing Company, Subscription Department, P.O. Box 211, 1000 AE Amsterdam, Netherlands (or North Holland Publishing Company, 52 Vanderbilt Avenue, New York, NY 10017, U.S.A.).
Instruments & Experimental Techniques. Plenum Publishing Corporation, 227 West 17 Street, New York, NY 10011, U.S.A.
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SIAM J. Computing. (SIAM Journal on Computing). Business Manager, SIAM Publications, 33 So. 17th Street, Philadelphia, Pennsylvania 19103, U.S.A.
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Tappi. Technical Association of the Pulp and Paper Industry, 1 Dunwoody Park, Atlanta, Georgia 30338, U.S.A.
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